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Sequence Listing was accepted.

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Reviewer: Anne Corrigan

Timestamp: [year=2009; month=5; day=15; hr=9; min=15; sec=22; ms=494;]

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Application No: 10510959 Version No: 2.0

Input Set:

Output Set:

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Finished: 2009-05-07 17:55:44.600
Elapsed: 0 hr(s) 0 min(s) 7 sec(s) 615 ms
Total Warnings: 135
Total Errors: 0
No. of SeqIDs Defined: 138
Actual SeqID Count: 138

| Error code | Error Description |
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| W 213 | Artificial or Unknown found in <213> in SEQ ID (2) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (3) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (4) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (5) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (6) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (7) |
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| W 213 | Artificial or Unknown found in <213> in SEQ ID (14) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (15) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (16) |
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| W 213 | Artificial or Unknown found in <213> in SEQ ID (18) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (19) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (20) |

Input Set:

Output Set:

Started: 2009-05-07 17:55:36.985
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Error code Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Lovejoy, David
Chewpoy, R. Bradley
Barsyte, Dalia
Rotzinger, Susan

<120> TENEURIN C-TERMINAL ASSOCIATED PEPTIDES (TCAP) AND METHODS AND USES
THEREOF

<130> 090931-360630

<140> 10510959
<141> 2005-08-10

<150> PCT/CA03/00622
<151> 2003-05-02

<150> US 60/376,879
<151> 2002-05-02

<150> US 60/377,231
<151> 2002-05-03

<150> US 60/424,016
<151> 2002-11-06

<160> 138

<170> PatentIn version 3.1

<210> 1
<211> 1490
<212> DNA
<213> Artificial Sequence

<220>
<223> Rainbow Trout Ten M3 carboxy termini'

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ttcgccaccc ccaagtctct gatcggtaaag ggtgtcatgt tggcggtgac gcagggccgt 180
tggtcacca acgctctgaa catcgccaac gaggactgca tcaaggctgc cggcgtcctc 240
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ttcatcaaga ccagcctccc ggagagcgcac ctgggagcgc tgaggctgac aagcgggagg 360
aagtgcgtgg agaacggaag tcaacgtgac tgtgtccag tccaccaccc tggtgaacgg 420
cagaaccggc gcttcggcga cgtggagctg cagtacggcg ctctagcgct ccacgtgcgc 480

| | |
|---|------|
| tatggcatga ctctggacga ggagaaggcg cgtgtgctgg agcaggccag gcagaaggcg | 540 |
| ttgtcgagtg cctggtccag ggagcaacaa cgggtgaggg agggggagga gggggtgagg | 600 |
| ctgtggacgg agggggagaa gaggcagctg ctgagcggga ggaaggttct gggctacgac | 660 |
| gggtactacg tcctctccat agagcagtac cccgagctag cagactccgc taacaacatc | 720 |
| cagttcctca ggcagagcga aatagggaaag aggtaacaga cagaatcctc ggcactggcc | 780 |
| gccaaagaga ctacccttc caaatcctgc cccccaaacct ccctcgctc ccccttttc | 840 |
| tctaaaaagg gggagggtcc aggctagtgc tgtgttagc gccgactagc tgaaacaaaac | 900 |
| agtaaaatgt agaatatctt aaactgaact atacctaata ctaccactgt ggggcctgaa | 960 |
| aatcaaacaa aacggctcca actgacgcaa atgttgtcc catgtctat acagcgtgaa | 1020 |
| atggactgtg gactctcttg aaaagagaga aaaaaaaagtc aaaactctcg gtttgtgaaa | 1080 |
| ggagaaaaaaaa acgtttttt ttttttaaa tagacttcct gaatttgctt tcggaaaaaaaa | 1140 |
| tatTTaaaaa agaaagaaga aatgtgtta catacgata acactacaac acgtctggac | 1200 |
| taatagaaga aaagcttct ggttcttac acaggacaac gtctataatc tgattctaca | 1260 |
| tcctgacgac tgaccttga ttgaccttgc cgtaactgaaa aaggtagtgt ttttgtcgc | 1320 |
| agtaggacca tgggtctcca atgggtgtaa ctagacagtt aaaaccactt gttgaaacca | 1380 |
| cttgcttgtt ctctgcttt tctttccaaa agggacaaaaa cagctcccac caagtgactt | 1440 |
| ctttaccaat actagatcaa agtgggacgt tttggctcg tgccgaattc | 1490 |

<210> 2
 <211> 756
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Rainbow Trout Ten M3 coding sequence of carboxy termini of Ten M3

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|---|-----|
| tccatctcggtgggtgcaaca ggaagtgacc cggcaagcca aggcttcct gtccttcgag | 60 |
| aggatgccgg agatccagct gagccgcccgg cgctccaacc gggagaaaacc ctggctgtgg | 120 |
| ttcgccaccg ccaagtctct gatcggtaaag ggtgtcatgt tggcggtgac gcagggccgt | 180 |
| gtggtcacca acgctctgaa catcgccaac gaggactgca tcaaggctcgccgcccgtc | 240 |
| aacaatgcgt tctacctgga ggacctgcac ttcacggtgaa agggacgcga cacgcactac | 300 |
| ttcatcaaga ccagcctccc ggagagcgcac ctgggagcgc tgaggctgac aagcgggagg | 360 |

aagtgcgtgg agaacggaag tcaacgtac tgtgtccag tccaccaccc tggtgaacgg 420
cagaaccggc gcttcgccga cgtggagctg cagtacggcg ctctagcgct ccacgtgcgc 480
tatggcatga ctctggacga ggagaaggcg cgtgtgctgg agcaggccag gcagaaggcg 540
ttgtcgagtg cctggtccag ggagcaacaa cgggtgaggg agggggagga gggggtgagg 600
ctgtggacgg agggggagaa gaggcagctg ctgagcggga ggaaggttct gggctacgac 660
gggtactacg tcctctccat agagcagtag cccgagctag cagactccgc taacaacatc 720
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<210> 3
<211> 251
<212> PRT
<213> Artificial Sequence

<220>
<223> Rainbow Trout Ten M3 carboxy termini of Ten M3

<400> 3

Ser Ile Ser Gly Val Gln Gln Glu Val Thr Arg Gln Ala Lys Ala Phe
1 5 10 15

Leu Ser Phe Glu Arg Met Pro Glu Ile Gln Leu Ser Arg Arg Arg Ser
20 25 30

Asn Arg Glu Lys Pro Trp Leu Trp Phe Ala Thr Ala Lys Ser Leu Ile
35 40 45

Gly Lys Gly Val Met Leu Ala Val Thr Gln Gly Arg Val Val Thr Asn
50 55 60

Ala Leu Asn Ile Ala Asn Glu Asp Cys Ile Lys Val Ala Ala Val Leu
65 70 75 80

Asn Asn Ala Phe Tyr Leu Glu Asp Leu His Phe Thr Val Glu Gly Arg
85 90 95

Asp Thr His Tyr Phe Ile Lys Thr Ser Leu Pro Glu Ser Asp Leu Gly
100 105 110

Ala Leu Arg Leu Thr Ser Gly Arg Lys Ser Leu Glu Asn Gly Val Asn
115 120 125

Val Thr Val Ser Gln Ser Thr Thr Val Val Asn Gly Arg Thr Arg Arg
130 135 140

Phe Ala Asp Val Glu Leu Gln Tyr Gly Ala Leu Ala Leu His Val Arg
145 150 155 160

Tyr Gly Met Thr Leu Asp Glu Glu Lys Ala Arg Val Leu Glu Gln Ala
165 170 175

Arg Gln Lys Ala Leu Ser Ser Ala Trp Ser Arg Glu Gln Gln Arg Val
180 185 190

Arg Glu Gly Glu Glu Gly Val Arg Leu Trp Thr Glu Gly Glu Lys Arg
195 200 205

Gln Leu Leu Ser Gly Arg Lys Val Leu Gly Tyr Asp Gly Tyr Tyr Val
210 215 220

Leu Ser Ile Glu Gln Tyr Pro Glu Leu Ala Asp Ser Ala Asn Asn Ile
225 230 235 240

Gln Phe Leu Arg Gln Ser Glu Ile Gly Lys Arg
245 250

<210> 4
<211> 252
<212> PRT
<213> Artificial Sequence

<220>
<223> Mouse Ten M1

<400> 4

Met Ile Leu Gly Ile Gln Cys Glu Leu Gln Lys Gln Leu Arg Asn Phe
1 5 10 15

Ile Ser Leu Asp Gln Leu Pro Met Thr Pro Gln Tyr Asn Glu Gly Arg
20 25 30

Cys Leu Glu Gly Gly Lys Gln Pro Arg Phe Ala Ala Val Pro Ser Val
35 40 45

Phe Gly Lys Gly Ile Lys Phe Ala Ile Lys Glu Gly Ile Val Thr Ala
50 55 60

Asp Ile Ile Gly Val Ala Asn Glu Asp Ser Arg Arg Leu Ala Ala Ile
65 70 75 80

Leu Asn Asn Ala His Tyr Leu Glu Asn Leu His Phe Thr Ile Glu Gly
85 90 95

Arg Asp Thr His Tyr Phe Ile Lys Leu Gly Ser Leu Glu Glu Asp Leu
100 105 110

Val Leu Ile Gly Asn Thr Gly Gly Arg Arg Ile Leu Glu Asn Gly Val
115 120 125

Asn Val Thr Val Ser Gln Met Thr Ser Val Leu Asn Gly Arg Thr Arg
130 135 140

Arg Phe Ala Asp Ile Gln Leu Gln His Gly Ala Leu Cys Phe Asn Ile
145 150 155 160

Arg Tyr Gly Thr Thr Val Glu Glu Lys Asn His Val Leu Glu Met
165 170 175

Ala Arg Gln Arg Ala Val Ala Gln Ala Trp Thr Gln Glu Gln Arg Arg
180 185 190

Leu Gln Glu Gly Glu Gly Thr Arg Val Trp Thr Glu Gly Glu Lys
195 200 205

Gln Gln Leu Leu Gly Thr Gly Arg Val Gln Gly Tyr Asp Gly Tyr Phe
210 215 220

Val Leu Ser Val Glu Gln Tyr Leu Glu Leu Ser Asp Ser Ala Asn Asn
225 230 235 240

Ile His Phe Met Arg Gln Ser Glu Ile Gly Arg Arg
245 250

<210> 5

<211> 253

<212> PRT

<213> Artificial Sequence

<220>

<223> Mouse Ten M2

<400> 5

Leu Ile Thr Gly Val Gln Gln Thr Thr Glu Arg His Asn Gln Ala Phe
1 5 10 15

Leu Ala Leu Glu Gly Gln Val Ile Thr Lys Lys Leu His Ala Ser Ile
20 25 30

Arg Glu Lys Ala Gly His Trp Phe Ala Thr Thr Thr Pro Ile Ile Gly
35 40 45

Lys Gly Ile Met Phe Ala Ile Lys Glu Gly Arg Val Thr Thr Gly Val
50 55 60

Ser Ser Ile Ala Ser Glu Asp Ser Arg Lys Val Ala Ser Val Leu Asn
65 70 75 80

Asn Ala Tyr Tyr Leu Asp Lys Met His Tyr Ser Ile Glu Gly Lys Asp
85 90 95

Thr His Tyr Phe Val Lys Ile Gly Ala Ala Asp Gly Asp Leu Val Thr
100 105 110

Leu Gly Thr Thr Ile Gly Arg Lys Val Leu Glu Ser Gly Val Asn Val
115 120 125

Thr Val Ser Gln Pro Thr Leu Leu Val Asn Gly Arg Thr Arg Arg Phe
130 135 140

Thr Asn Ile Glu Phe Gln Tyr Ser Thr Leu Leu Leu Ser Ile Arg Tyr
145 150 155 160

Gly Leu Thr Pro Asp Thr Leu Asp Glu Glu Lys Ala Arg Val Leu Asp
165 170 175

Gln Ala Gly Gln Arg Ala Leu Gly Thr Ala Trp Ala Lys Glu Gln Gln
180 185 190

Lys Ala Arg Asp Gly Arg Glu Gly Ser Arg Leu Trp Thr Glu Gly Glu
195 200 205

Lys Gln Gln Leu Leu Ser Thr Gly Arg Val Gln Gly Tyr Glu Gly Tyr
210 215 220

Tyr Val Leu Pro Val Glu Gln Tyr Pro Glu Leu Ala Asp Ser Ser Ser
225 230 235 240

Asn Ile Gln Phe Leu Arg Gln Asn Glu Met Gly Lys Arg
245 250

<210> 6
<211> 251
<212> PRT
<213> Artificial Sequence

<220>
<223> Mouse Ten M3

<400> 6

Pro Ile Phe Gly Val Gln Gln Val Ala Arg Gln Ala Lys Ala Phe
1 5 10 15

Leu Ser Leu Gly Lys Met Ala Glu Val Gln Val Ser Arg Arg Lys Ala
20 25 30

Gly Ala Glu Gln Ser Trp Leu Trp Phe Ala Thr Val Lys Ser Leu Ile
35 40 45

Gly Lys Gly Val Met Leu Ala Val Ser Gln Gly Arg Val Gln Thr Asn
50 55 60

Val Leu Asn Ile Ala Asn Glu Asp Cys Ile Lys Val Ala Ala Val Leu
65 70 75 80

Asn Asn Ala Phe Tyr Leu Glu Asn Leu His Phe Thr Ile Glu Gly Lys
85 90 95

Asp Thr His Tyr Phe Ile Lys Thr Thr Pro Glu Ser Asp Leu Gly
100 105 110

Thr Leu Arg Leu Thr Ser Gly Arg Lys Ala Leu Glu Asn Gly Ile Asn
115 120 125

Val Thr Val Ser Gln Ser Thr Thr Val Val Asn Gly Arg Thr Arg Arg
130 135 140

Phe Ala Asp Val Glu Met Gln Phe Gly Ala Leu Ala Leu His Val Arg
145 150 155 160

Tyr Gly Met Thr Leu Asp Glu Glu Lys Ala Arg Ile Leu Glu Gln Ala
165 170 175

Arg Gln Arg Ala Leu Ala Arg Ala Trp Ala Arg Glu Gln Gln Arg Val
180 185 190

Arg Asp Gly Glu Glu Gly Ala Arg Leu Trp Thr Glu Gly Glu Lys Arg
195 200 205

Gln Leu Leu Ser Ala Gly Lys Val Gln Gly Tyr Asp Gly Tyr Tyr Val
210 215 220

Leu Ser Val Glu Gln Tyr Pro Glu Leu Ala Asp Ser Ala Asn Asn Ile
225 230 235 240

Gln Phe Leu Arg Gln Ser Glu Ile Gly Lys Arg
245 250

<210> 7

<211> 243

<212> PRT

<213> Artificial Sequence

<220>

<223> Mouse Ten M4

<400> 7

Ser Ile Leu Gly Val Gln Cys Glu Val Gln Lys Gln Leu Lys Ala Phe
1 5 10 15

Val Thr Leu Glu Arg Phe Asp Gln Leu Tyr Gly Ser Thr Ile Thr Ser
20 25 30

Cys Gln Gln Ala Pro Glu Thr Lys Lys Phe Ala Ser Ser Gly Ser Ile
35 40 45

Phe Gly Lys Gly Val Lys Phe Ala Leu Lys Asp Gly Arg Val Thr Thr
50 55 60

Asp Ile Ile Ser Val Ala Asn Glu Asp Gly Arg Arg Ile Ala Ala Ile
65 70 75 80

Leu Asn Asn Ala His Tyr Leu Glu Asn Leu His Phe Thr Ile Asp Gly

85 90 95

Val Asp Thr His Tyr Phe Val Lys Pro Gly Pro Ser Glu Gly Asp Leu
100 105 110

Ala Ile Leu Gly Leu Ser Gly Gly Arg Arg Thr Leu Glu Asn Gly Val
115 120 125

Asn Val Thr Val Ser Gln Ile Asn Thr Met Leu Ile Gln Leu Gln Tyr
130 135 140

Arg Ala Leu Cys Leu Asn Thr Arg Tyr Gly Thr Thr Val Asp Glu Glu
145 150 155 160

Lys Val Arg Val Leu Glu Leu Ala Arg Gln Arg Ala Val Arg Gln Ala
165 170 175

Trp Ala Arg Glu Gln Gln Arg Leu Arg Glu Gly Glu Glu Gly Leu Arg
180 185 190

Ala Trp Thr Asp Gly Glu Lys Gln Gln Val Leu Asn Thr Gly Arg Val
195 200 205

Gln Gly Tyr Asp Gly Phe Phe Val Thr Ser Val Glu Gln Tyr Pro Glu
210 215 220

Leu Ser Asp Ser Ala Asn Asn Ile His Phe Met Arg Gln Ser Glu Met
225 230 235 240

Gly Arg Arg

<210> 8
<211> 252
<212> PRT
<213> Artificial Sequence

<220>
<223> Human Ten M1

<400> 8

Thr Ile Leu Gly Ile Gln Cys Glu Leu Gln Lys Gln Leu Arg Asn Phe
1 5 10 15

Ile Ser Leu Asp Gln Leu Pro Met Thr Pro Arg Tyr Asn Asp Gly Arg
20 25 30

Cys Leu Glu Gly Gly Lys Gln Pro Arg Phe Ala Ala Val Pro Ser Val
35 40 45

Phe Gly Lys Gly Ile Lys Phe Ala Ile Lys Asp Gly Ile Val Thr Ala
50 55 60

Asp Ile Ile Gly Val Ala Asn Glu Asp Ser Arg Arg Leu Ala Ala Ile
65 70 75 80

Leu Asn Asn Ala His Tyr Leu Glu Asn Leu His Phe Thr Ile Glu Gly
85 90 95

Arg Asp Thr His Tyr Phe Ile Lys Leu Gly Ser Leu Glu Glu Asp Leu
100 105 110

Val Leu Ile Gly Asn Thr Gly Arg Arg Ile Leu Glu Asn Gly Val
115 120 125

Asn Val Thr Val Ser Gln Met Thr Ser Val Leu Asn Gly Arg Thr Arg
130 135 140

Arg Phe Ala Asp Ile Gln Leu Gln His Gly Ala Leu Cys Phe Asn Ile
145 150 155 160

Arg Tyr Gly Thr Thr Val Glu Glu Lys Asn His Val Leu Glu Ile
165 170 175

Ala Arg Gln Arg Ala Val Ala Gln Ala Trp Thr Lys Glu Gln Arg Arg
180 185 190

Leu Gln Glu Gly Glu Glu Gly Ile Arg Ala Trp Thr Glu Gly Glu Lys
195 200 205

Gln Gln Leu Leu Ser Thr Gly Arg Val Gln Gly Tyr Asp Gly Tyr Phe
210 215 220

Val Leu Ser Val Glu Gln Tyr Leu Glu Leu Ser Asp Ser Ala Asn Asn
225 230 235 240

Ile His Phe Met Arg Gln Ser Glu Ile Gly Arg Arg

245

250

<210> 9
<211> 253
<212> PRT
<213> Artificial Sequence

<220>
<223> Human Ten M2

<400> 9

Leu Ile Thr Gly Val Gln Gln Thr Thr Glu Arg His Asn Gln Ala Phe
1 5 10 15

Met Ala Leu Glu Gly Gln Val Ile Thr Lys Lys Leu His Ala Ser Ile
20 25 30

Arg Glu Lys Ala Gly His Trp Phe Ala Thr Thr Pro Ile Ile Gly
35 40 45

Lys Gly Ile Met Phe Ala Ile Lys Glu Gly Arg Val Thr Thr Gly Val
50 55 60

Ser Ser Ile Ala Ser Glu Asp Ser Arg Lys Val Ala Ser Val Leu Asn
65 70 75